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# **Release of Landsat 7 / ETM+ Data processing Software**

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# **Availability of Landsat 7 Processing Software**

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- **Objective: To facilitate the development of Landsat 7 data applications by the User Community.**
- **“User Community” includes:**
  - **International Network of Direct Reception Ground Stations**
  - **U.S. Domestic Applications Developers and Service Providers**

# Which Software Will Be Released?

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- **Source Code from Three Segments of the U.S. Landsat 7 Ground System:**
  - **Landsat Processing System (LPS)**, a system that receives the raw data stream and produces Level 0R data, that are archived in the EROS Data Center Distributed Active Archive Center (EDC-DAAC).
  - **Image Assessment System (IAS)**, a system that assesses ETM+ data quality and performs in-orbit ETM+ calibration. The IAS software is capable of radiometrically and geometrically correcting Level 0R data for internal quality assurance purposes.
  - **Landsat Product Generation System (LPGS)**, a production system that provides Level 1R and 1G products for U.S. customers.

# **Specifically, What Will Be Released?**

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- **LPS , IAS, and LPGS**
    - **Source Code, and Build Instructions**
    - **Documentation,**
    - **Test Data, and**
    - **List of Open Problems at time of delivery**
  - **Some Limited Associated Ground Control Information will be released with the IAS that may be used to perform precision geometric correction on a few specific ETM+ scenes.**

# USER BEWARE!

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- Information will be released AS IS, without any explicit or implied warrantee as to its accuracy or suitability for use.
- The U.S. government will make no effort to ensure that the released source code compiles and runs on any computer systems other than the LPS and IAS.
- No U.S. government support will be offered or provided to those who obtain the released source code and information.
- Early Releases have only been tested with Simulated Landsat 7 Data and Limited Landsat 5 data which has been converted to Landsat-7 data format. Later testing will be performed with data from the fully integrated spacecraft.

# **When Will It Be Released?**

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- **LPS software (called Release 2.1) is currently being prepared for release by the end of May.**
- **IAS software (called Release 2) is being prepared for release. A subsequent release (3) will be available in late summer.**
- **LPGS software will be released late in 1998.**
- **Subsequent releases will be provided to address remaining open items and to address any problems found with receipt of data from Landsat 7 instrument and spacecraft testing.**

# **How Will It Be Released?**

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- **Software will be released through an FTP-server.**
- **Initially, this server will be maintained by the NASA Landsat 7 Science Office.**

**When Landsat 7 is launched and handed over to NOAA, this software will be transferred to a NOAA operations server.**

- **To request access to Landsat 7 software, International Ground Stations or their upgrade contractor should email [jellickson@nesdis.noaa.gov](mailto:jellickson@nesdis.noaa.gov) or write to:  
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